

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P483500

Luminaire Tested: **IFLD-S-SA3B-727-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483500  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-727-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

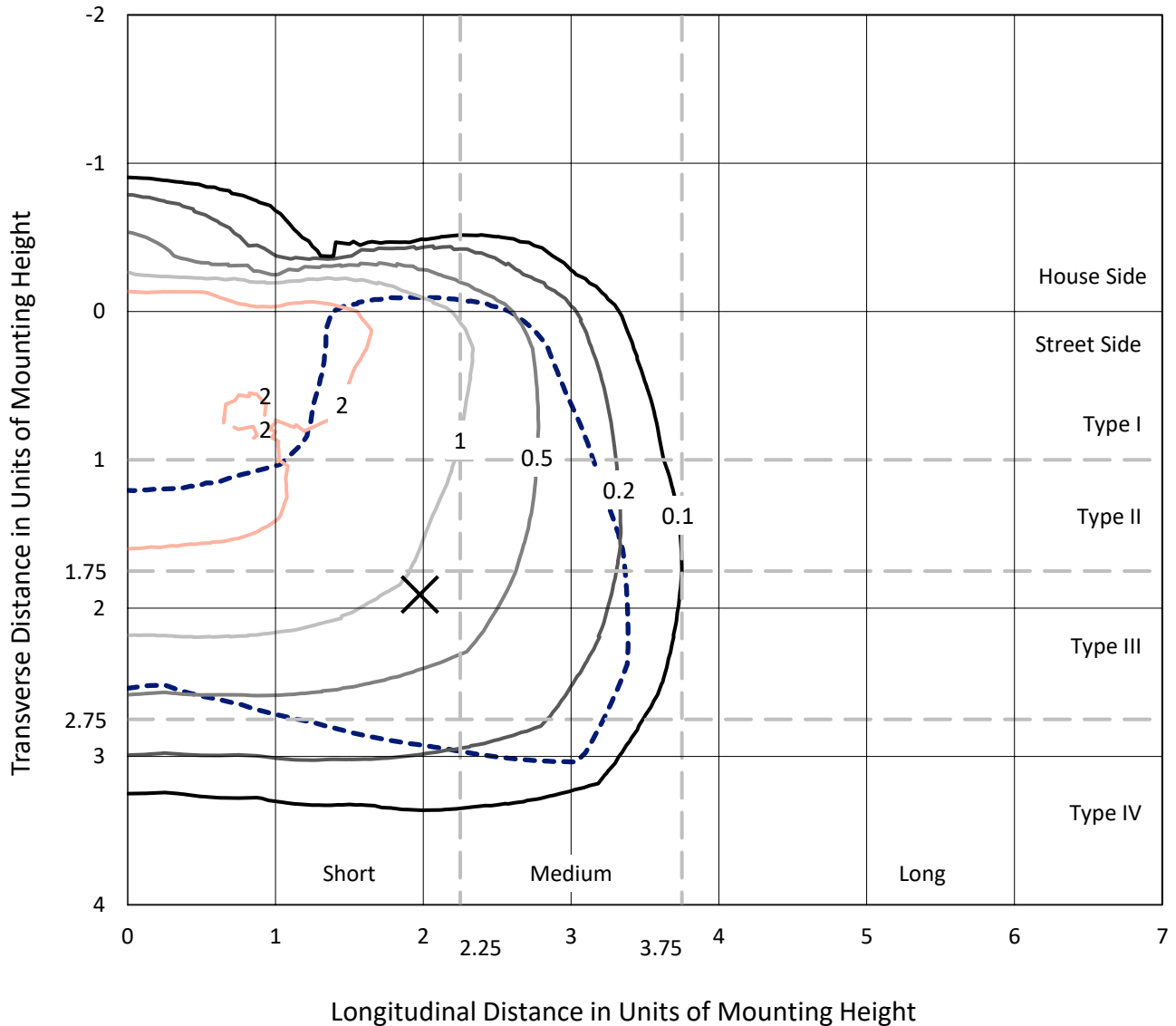
Lumens per Lamp: N/A  
Luminaire Lumens: 10499.7 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

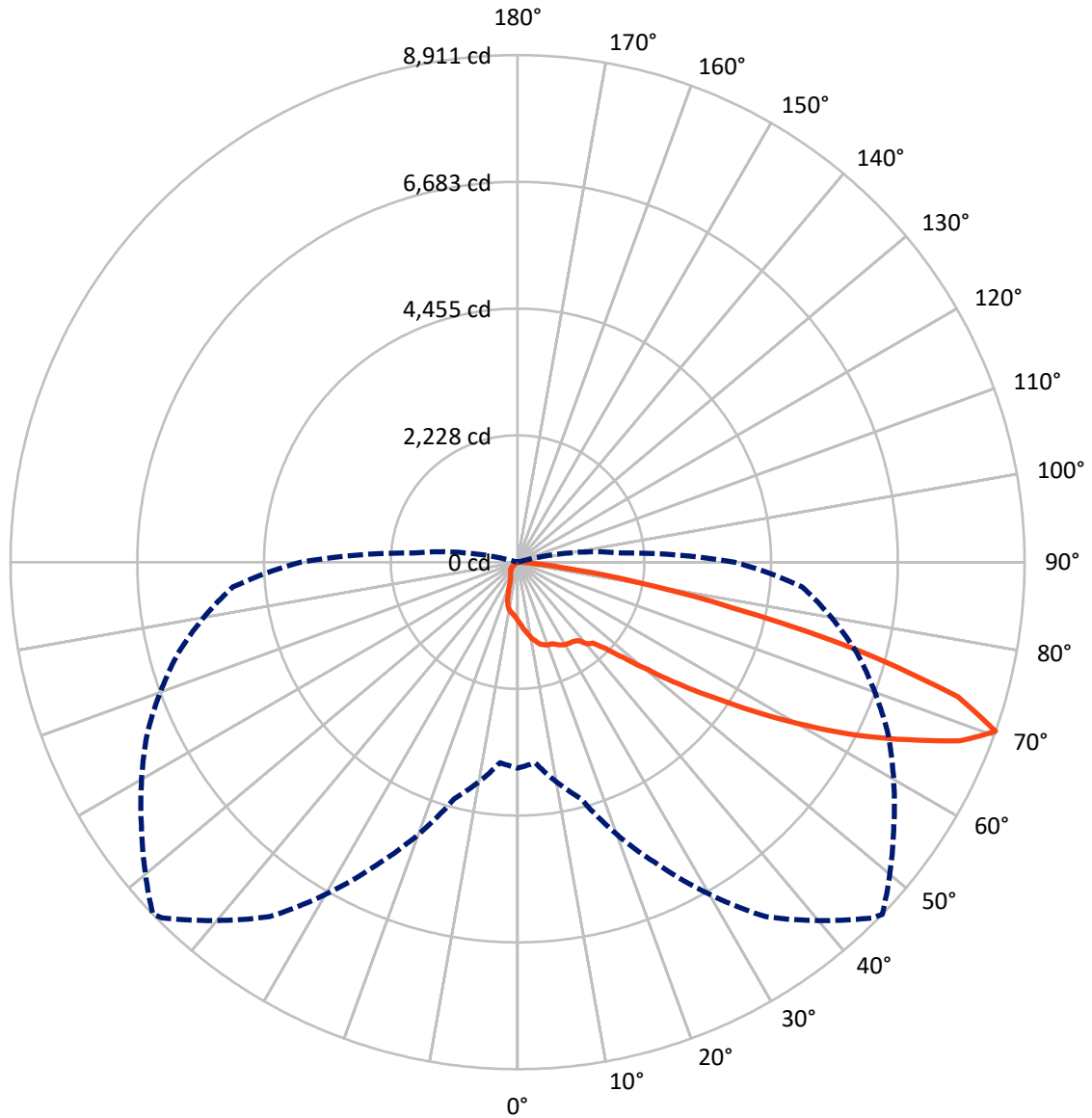
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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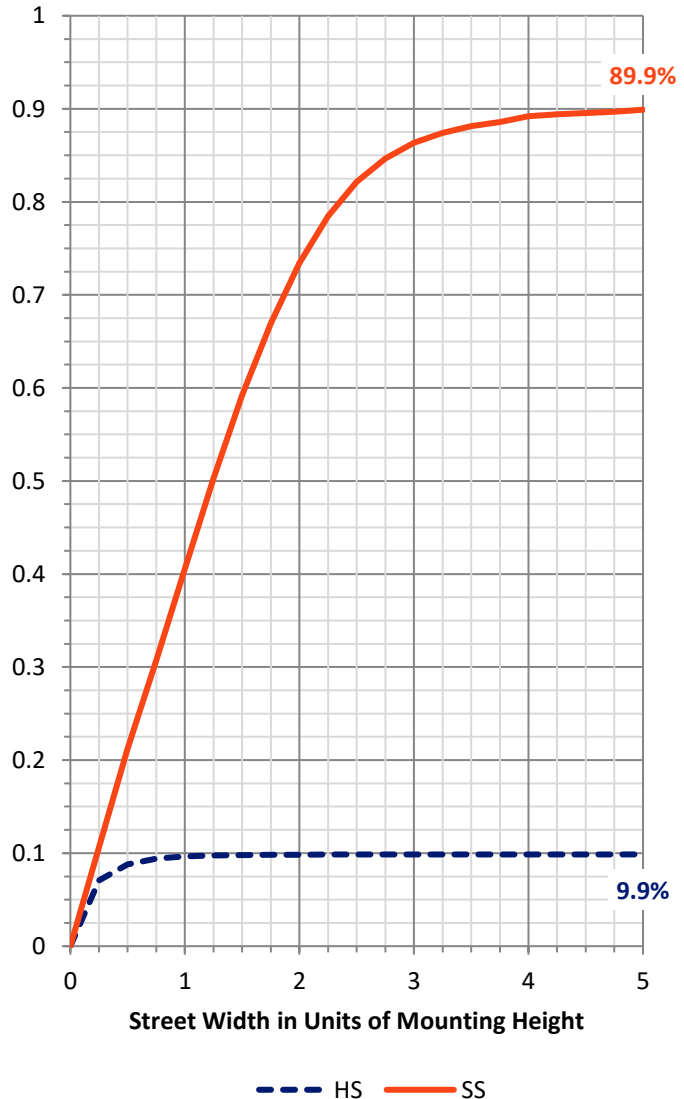
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1044.7	0.0	1044.7
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	9454.9	0.0	9454.9
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	10499.7	0.0	10499.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	1.0
10°-20°	310.4	3.0
20°-30°	497.2	4.7
30°-40°	709.6	6.8
40°-50°	1225.3	11.7
50°-60°	2346.0	22.3
60°-70°	3474.1	33.1
70°-80°	1720.7	16.4
80°-90°	113.7	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10499.7	100.0
0°-180°	10499.7	100.0

**Coefficient of Utilization**



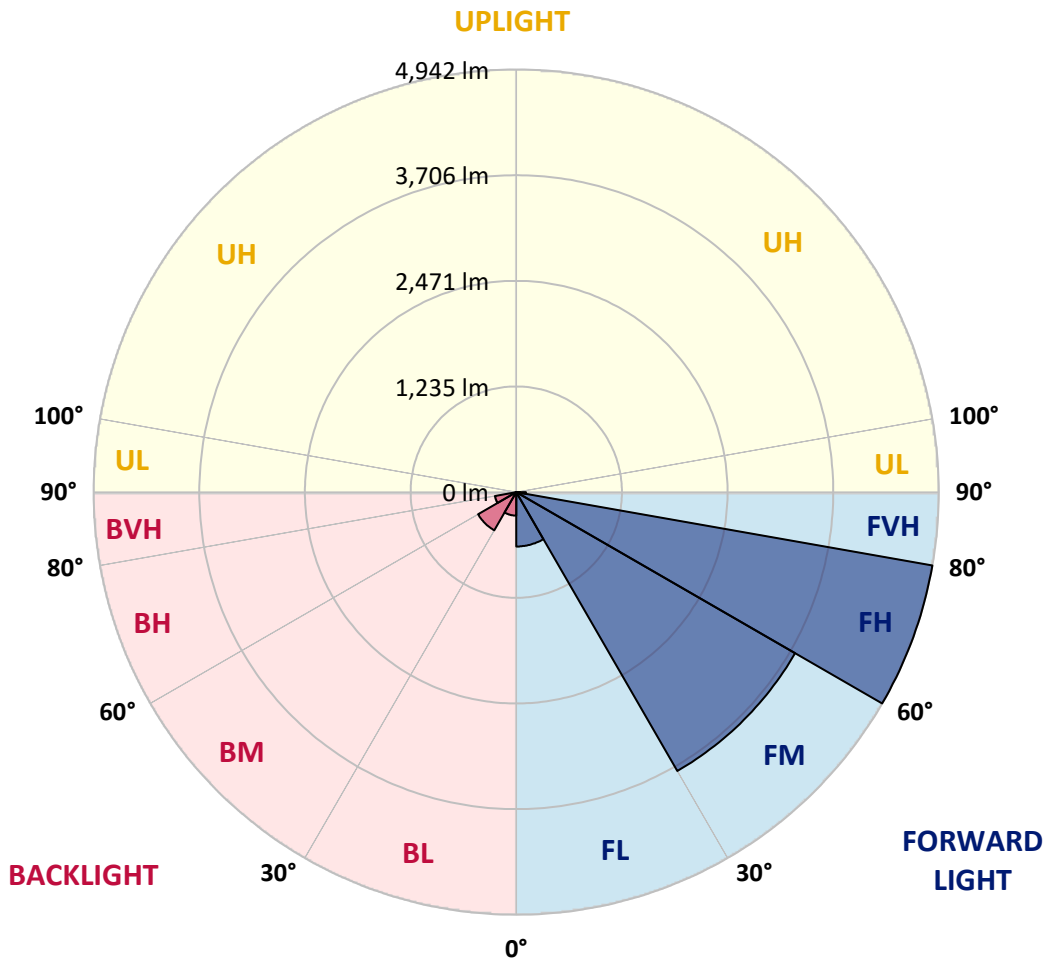
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.8	6.1			
FM (30°-60°)	3765.2	35.9			
FH (60°-80°)	4941.7	47.1			G2/5000
FVH (80°-90°)	112.3	1.1			G2/225
BL (0°-30°)	274.5	2.6	B1/500		
BM (30°-60°)	515.8	4.9	B1/1000		
BH (60°-80°)	253.0	2.4	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7
2.5°	1150.1	1142.6	1130.5	1126.0	1113.9	1107.8	1098.8	1094.2	1077.6	1061.0	1050.4
5°	1290.7	1272.6	1278.6	1260.5	1221.2	1189.4	1187.9	1153.2	1115.4	1085.1	1044.3
7.5°	1432.8	1417.6	1395.0	1369.3	1325.5	1278.6	1265.0	1231.8	1178.9	1126.0	1071.5
10°	1540.1	1529.5	1509.8	1473.6	1413.1	1360.2	1361.7	1305.8	1249.9	1189.4	1115.4
12.5°	1606.6	1611.1	1582.4	1546.1	1493.2	1426.7	1425.2	1387.4	1323.9	1260.5	1172.8
15°	1673.1	1689.7	1645.9	1603.5	1535.5	1487.2	1496.2	1450.9	1388.9	1316.4	1219.7
17.5°	1683.6	1688.2	1679.1	1617.1	1567.3	1526.5	1528.0	1497.7	1450.9	1372.3	1289.2
20°	1665.5	1662.5	1651.9	1606.6	1573.3	1549.1	1550.6	1543.1	1517.4	1453.9	1340.6
22.5°	1612.6	1612.6	1599.0	1568.8	1553.7	1576.3	1558.2	1586.9	1559.7	1521.9	1428.2
25°	1570.3	1586.9	1579.4	1559.7	1565.8	1596.0	1605.1	1632.3	1627.7	1580.9	1488.7
27.5°	1615.6	1596.0	1600.5	1577.8	1600.5	1645.9	1650.4	1670.0	1668.5	1630.7	1543.1
30°	1645.9	1664.0	1629.2	1579.4	1603.5	1680.6	1677.6	1703.3	1715.4	1670.0	1594.5
32.5°	1742.6	1727.5	1698.8	1632.3	1635.3	1679.1	1692.7	1726.0	1733.5	1706.3	1644.3
35°	1940.6	1917.9	1792.5	1692.7	1677.6	1698.8	1707.8	1772.8	1786.4	1756.2	1697.2
37.5°	2245.9	2194.5	2043.3	1822.7	1754.7	1750.1	1750.1	1836.3	1887.7	1818.2	1775.8
40°	2682.6	2610.1	2446.9	2063.0	1855.9	1874.1	1892.2	1939.1	1933.0	1887.7	1878.6
42.5°	3238.8	3182.9	3006.1	2466.5	2049.4	1958.7	1943.6	2007.1	2102.3	2084.2	2078.1
45°	3702.8	3705.8	3592.5	3019.7	2383.4	2153.7	2164.3	2212.6	2372.8	2359.2	2357.7
47.5°	4041.4	3999.0	3982.4	3553.2	2870.1	2524.0	2508.8	2542.1	2750.7	2836.8	2876.1
50°	4349.7	4321.0	4281.7	4071.6	3454.9	2987.9	2972.8	2975.8	3294.7	3415.7	3512.4
52.5°	4732.0	4768.3	4638.3	4509.9	4212.1	3591.0	3574.3	3515.4	3911.4	4077.6	4192.5
55°	5203.6	5135.6	4989.0	5055.5	4936.1	4242.4	4212.1	4142.6	4614.2	4683.7	4804.6
57.5°	5307.9	5256.5	5407.6	5643.4	5758.2	5007.1	4995.0	4869.6	5205.1	5141.6	5483.2
60°	5567.8	5581.4	5791.5	6260.0	6459.5	5889.7	5830.8	5610.1	5777.9	5790.0	6154.2
62.5°	5835.3	5803.6	6273.6	6724.0	7030.8	6725.5	6705.9	6267.6	6458.0	6303.8	6786.0
65°	5638.8	5687.2	6359.8	7113.9	7771.4	7543.1	7526.5	6900.8	7005.1	6813.2	7042.9
67.5°	4940.6	4842.4	5783.9	6935.6	8152.2	8400.1	8381.9	7591.5	7313.4	6810.1	6509.4
70°	3621.2	3536.6	4304.3	5873.1	7606.6	8838.4	8910.9	8072.1	7188.0	6175.4	5022.2
72.5°	1774.3	1775.8	2412.1	3982.4	6018.2	8055.5	8091.8	7401.1	6175.4	4552.2	2844.4
75°	524.4	530.5	893.2	1952.7	3890.2	6117.9	6158.8	5617.7	4280.1	2351.7	970.3
77.5°	191.9	191.9	296.2	733.0	1940.6	3861.5	3858.5	3448.9	2167.3	796.5	226.7
80°	99.7	104.3	154.2	299.2	840.3	2011.6	2087.2	1688.2	823.7	335.5	66.5
82.5°	40.8	45.3	84.6	154.2	403.5	705.8	772.3	662.0	358.2	234.3	30.2
85°	12.1	13.6	40.8	86.1	158.7	176.8	196.5	222.2	225.2	181.4	13.6
87.5°	1.5	1.5	16.6	28.7	34.8	37.8	43.8	43.8	114.9	127.0	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7
2.5°	1038.3	1030.7	1018.7	991.4	985.4	965.8	964.2	946.1	952.2	940.1	935.5
5°	1030.7	1014.1	980.9	959.7	938.5	924.9	915.9	908.3	906.8	900.8	897.7
7.5°	1044.3	1021.7	970.3	937.0	900.8	888.7	869.0	867.5	856.9	846.4	846.4
10°	1089.7	1048.9	993.0	937.0	890.2	850.9	805.5	772.3	760.2	733.0	736.0
12.5°	1126.0	1089.7	1008.1	950.6	879.6	790.4	690.7	613.6	577.3	542.6	556.2
15°	1177.3	1124.4	1036.8	953.7	838.8	684.6	521.4	435.3	402.0	394.5	393.0
17.5°	1233.3	1177.3	1073.1	946.1	755.7	529.0	383.9	334.0	340.1	349.1	347.6
20°	1295.2	1227.2	1100.3	920.4	624.2	383.9	314.4	312.8	321.9	335.5	338.5
22.5°	1360.2	1301.3	1133.5	843.3	465.5	308.3	302.3	302.3	308.3	324.9	321.9
25°	1432.8	1354.2	1150.1	723.9	334.0	284.1	287.2	293.2	296.2	309.8	311.3
27.5°	1488.7	1413.1	1154.7	580.4	272.0	263.0	270.5	278.1	282.6	293.2	297.7
30°	1540.1	1487.2	1130.5	432.2	249.4	244.8	247.9	258.4	267.5	276.6	276.6
32.5°	1605.1	1529.5	1074.6	306.8	235.8	228.2	226.7	231.2	241.8	252.4	252.4
35°	1671.6	1600.5	985.4	246.4	223.7	213.1	207.1	202.5	207.1	214.6	220.7
37.5°	1768.3	1707.8	873.6	226.7	214.6	199.5	187.4	176.8	169.3	167.8	172.3
40°	1905.8	1828.7	730.0	213.1	204.0	185.9	167.8	149.6	133.0	122.4	123.9
42.5°	2114.4	2007.1	574.3	205.5	196.5	170.8	145.1	119.4	98.2	87.7	87.7
45°	2412.1	2242.8	421.7	198.0	187.4	152.6	119.4	89.2	68.0	62.0	63.5
47.5°	2861.0	2527.0	302.3	185.9	175.3	133.0	93.7	63.5	49.9	46.9	48.4
50°	3447.4	2864.0	235.8	172.3	160.2	111.8	69.5	46.9	39.3	37.8	39.3
52.5°	4062.5	3204.1	207.1	160.2	137.5	89.2	51.4	37.8	33.2	31.7	33.2
55°	4588.5	3423.2	179.9	142.1	110.3	66.5	40.8	33.2	28.7	24.2	24.2
57.5°	5120.5	3533.5	142.1	117.9	81.6	49.9	34.8	28.7	24.2	19.6	18.1
60°	5552.7	3612.1	101.3	87.7	57.4	39.3	30.2	25.7	19.6	15.1	13.6
62.5°	5836.8	3386.9	74.1	66.5	42.3	33.2	25.7	21.2	15.1	10.6	10.6
65°	5696.3	3075.6	57.4	46.9	31.7	25.7	21.2	15.1	10.6	6.0	4.5
67.5°	5111.4	2505.8	46.9	34.8	24.2	19.6	16.6	12.1	6.0	1.5	1.5
70°	3813.1	1836.3	37.8	25.7	19.6	15.1	12.1	7.6	3.0	1.5	0.0
72.5°	2085.7	1005.0	30.2	21.2	15.1	12.1	9.1	6.0	3.0	0.0	0.0
75°	689.2	267.5	22.7	15.1	9.1	7.6	6.0	4.5	1.5	0.0	0.0
77.5°	166.2	69.5	18.1	13.6	7.6	4.5	3.0	1.5	1.5	0.0	0.0
80°	51.4	28.7	13.6	9.1	6.0	4.5	1.5	0.0	0.0	0.0	0.0
82.5°	21.2	13.6	6.0	6.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.6	7.6	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)